

NAMA : ANDINI WULANDARI

NIM : 20.01.013.020

KELAS : TEKNIK INFORMATIKA /3B

MK : KECERDASAN BUATAN

## PRAKTIKUM 2

1. Program Menerima dua buah bilangan Integer sebagai masukan kemudian menampilkan bilangan yang terbesar.

The screenshot shows the Visual Studio Code interface with a Python file named `uts.py` open. The code in the editor is as follows:

```
1 a = int(input("Masukkan Bilangan Pertama : "))
2 b = int(input("Masukkan Bilangan Kedua : "))
3
4 if a > b:
5     maks = a
6 else:
7     maks = b
8
9 print("Nilai terbesar adalah %d" % maks)
10
```

The Explorer sidebar on the left shows a project named "AI-PYTHON LANGUAGE" with various files. The Terminal at the bottom shows the execution of the program with the following output:

```
Masukkan Angka Pertama : 5
Masukkan Angka Kedua : 7
Nilai terbesar adalah 7
PS C:\AI-PYTHON LANGUAGE> cd 'c:\AI-PYTHON LANGUAGE'; & 'C:\Users\USER\AppData\Local\Microsoft\Windows\Apps\PowerShellCoreTools\powershell.exe' 'cd C:\AI-PYTHON LANGUAGE; python3 uts.py'
Masukkan Bilangan Pertama : 5
Masukkan Bilangan Kedua : 7
Nilai terbesar adalah 7
PS C:\AI-PYTHON LANGUAGE>
```

A notification box in the bottom right corner indicates a failed save operation for `user.txt` due to a newer file content, with options to "Compare" or "Overwrite". The status bar at the bottom shows "Python 3.10.0 64-bit" and the file encoding as "UTF-8".

2. Modifikasi program no 1 dengan menambahkan satu bilangan lagi menjadi 3, kemudian menampilkan yang terbesar diantara ketiganya.

The screenshot shows the Visual Studio Code interface with a Python file named `uts.py` open. The code is as follows:

```
1 a = int(input("Masukkan Bilangan Pertama : "))
2 b = int(input("Masukkan Bilangan Kedua : "))
3 c = int(input("Masukkan Bilangan Ketiga : "))
4
5 if a > b and a > c:
6     maks = a
7 elif b > a and b > c:
8     maks = b
9 else:
10    maks = c
11
12 print("Nilai terbesar adalah %d" % maks)
13
```

The terminal output shows the execution of the program with inputs 7, 3, and 6, resulting in the output "Nilai terbesar adalah 7". A notification at the bottom right indicates a failed save for `user.txt` due to newer content.

3. Program yang menerima masukan tiga buah bilangan integer dan memeriksa apakah ada diantara ketiga bilangan tersebut yang sama.

The screenshot shows the Visual Studio Code interface with a Python file named `praktikum5.7no3.py` open. The code is as follows:

```
1 print("MENENTUKAN BILANGAN YANG SAMA")
2
3 a = int(input("MASUKKAN BILANGAN PERTAMA : "))
4 b = int(input("MASUKKAN BILANGAN KEDUA : "))
5 c = int(input("MASUKKAN BILANGAN KETIGA : "))
6
7 if a == b or a == c:
8     same = a
9     print("NILAI YANG SAMA ADALAH ", same)
10 elif b == a or b == c:
11     same = b
12     print("NILAI YANG SAMA ADALAH ", same)
13 else:
14     print("TIDAK ADA NILAI YANG SAMA")
```

The terminal output shows the execution of the program with inputs 35, 64, and 35, resulting in the output "NILAI YANG SAMA ADALAH 35". A notification at the bottom right indicates a failed save for `user.txt` due to newer content.

The screenshot displays the Visual Studio Code interface with the following content:

**Explorer:** praktikum5.7no5.py, praktikum5.7no2.py, praktikum5.7no3.py, praktikum5.7no4.py

**AI-PYTHON LANGUAGE:** OUTLINE

**praktikum5.7no5.py > ...**

```

1 judul = "DATA NILAI MAHASISWA"
2 print(judul.rjust(50))
3 print("-"*70)
4 tugas = float(input("Masukkan Nilai Tugas = "))
5 UTS = int(input("Masukkan Nilai UTS = "))
6 UAS = int(input("Masukkan Nilai UAS = "))
7
8 NA = (0.25 * tugas) + (0.35 * UTS) + (0.40 * UAS)
9 print("-"*70)
10 judul = "NILAI AKHIR DAN GRADE"
11 print(judul.rjust(50))
12 print("-"*70)
13 input("Nama = ")
14 print(f"{NA}")
15
16 if NA >= 75:
17     grade = 'A'
18 elif NA >= 60:
19     grade = 'B'
20 elif NA >= 45:
21     grade = 'C'

```

**TERMINAL**

```

DATA NILAI MAHASISWA
-----
Masukkan Nilai Tugas = 80
Masukkan Nilai UTS = 75
Masukkan Nilai UAS = 80
-----

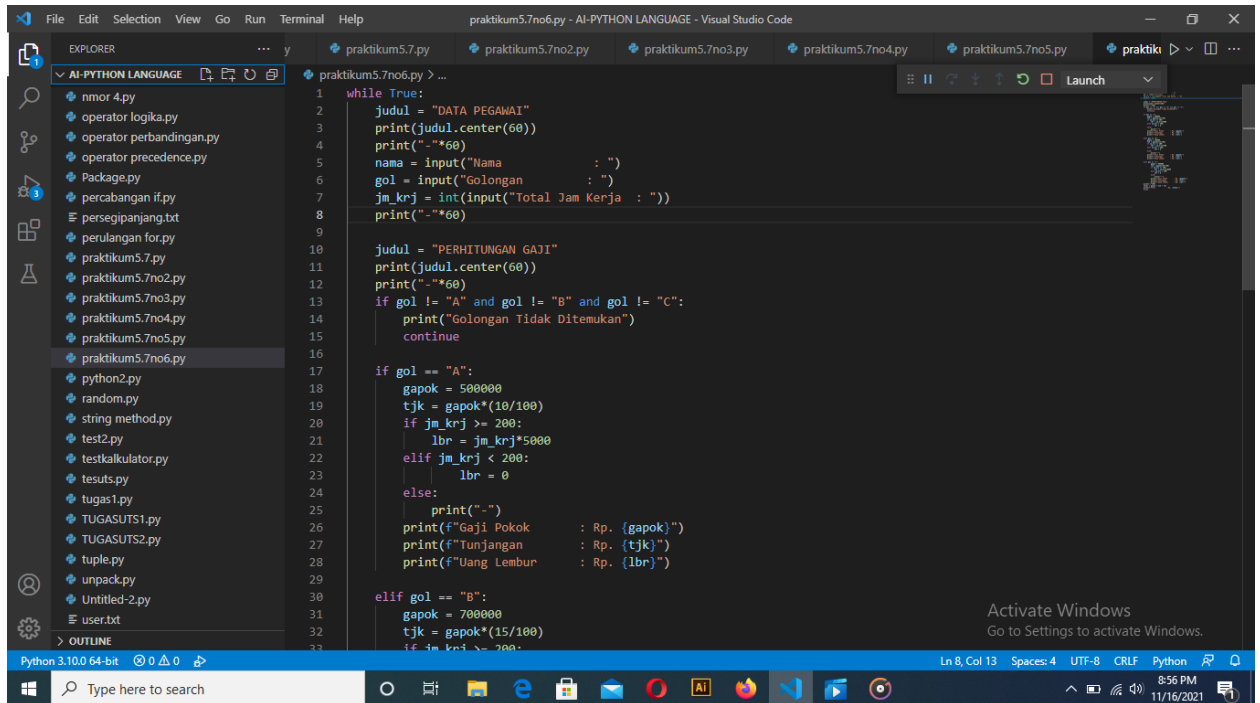
NILAI AKHIR DAN GRADE
-----

Nama = Andini Wulandari
78.25
Grade = A

```

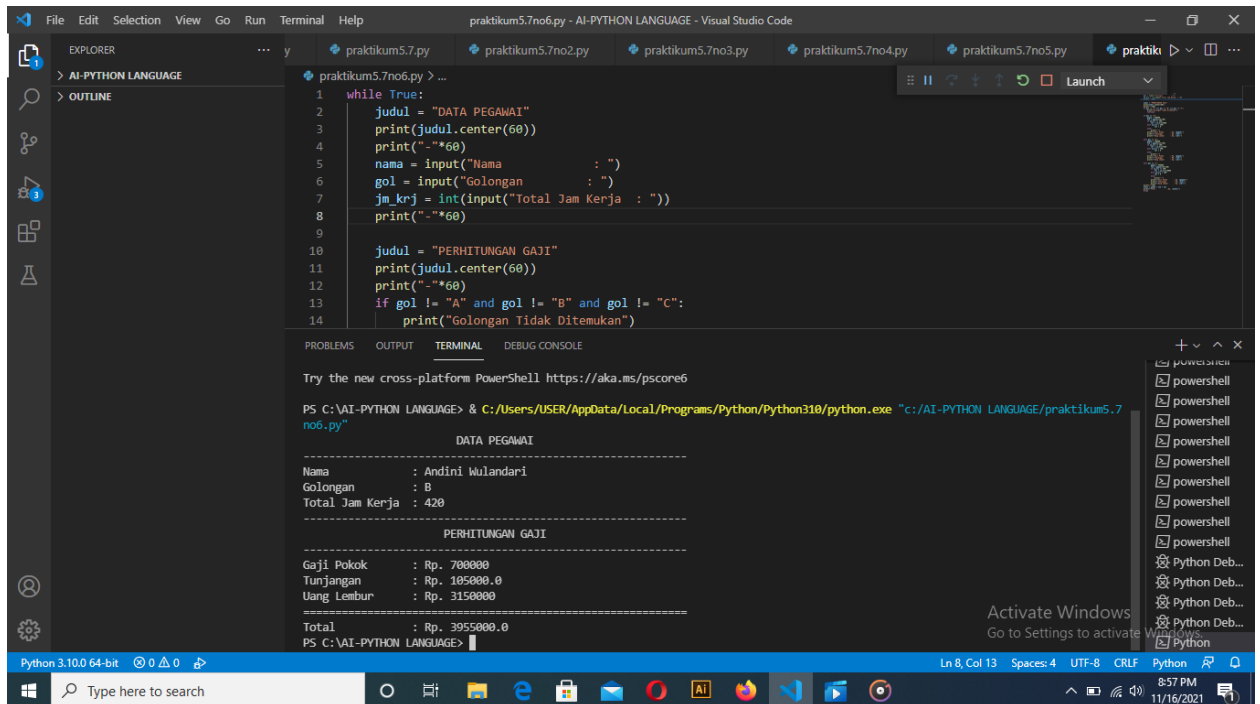
**Windows Taskbar:** Python 3.10.0 64-bit, Type here to search, Taskbar icons (File Explorer, Edge, Mail, etc.), System tray (Date/Time: 8:47 PM, 11/16/2021).

6. Program yang menghitung gaji seorang karyawan sebuah perusahaan.



The screenshot shows the Visual Studio Code editor with the file 'praktikum5.7no6.py' open. The code is a Python script that calculates employee salary based on job category and working hours. It includes a while loop for data entry, conditional logic for job categories, and calculations for basic salary, allowance, and overtime pay.

```
1 while True:
2     judul = "DATA PEGAWAI"
3     print(judul.center(60))
4     print("-"*60)
5     nama = input("Nama          : ")
6     gol = input("Golongan      : ")
7     jm_krj = int(input("Total Jam Kerja : "))
8     print("-"*60)
9
10    judul = "PERHITUNGAN GAJI"
11    print(judul.center(60))
12    print("-"*60)
13    if gol != "A" and gol != "B" and gol != "C":
14        print("Golongan Tidak Ditemukan")
15        continue
16
17    if gol == "A":
18        gapok = 500000
19        tjk = gapok*(10/100)
20        if jm_krj >= 200:
21            lbr = jm_krj*5000
22        elif jm_krj < 200:
23            lbr = 0
24        else:
25            print("-")
26        print(f"Gaji Pokok          : Rp. {gapok}")
27        print(f"Tunjangan           : Rp. {tjk}")
28        print(f"Uang Lembur          : Rp. {lbr}")
29
30    elif gol == "B":
31        gapok = 700000
32        tjk = gapok*(15/100)
33        if jm_krj >= 200:
```



The screenshot shows the same Visual Studio Code editor with the terminal window open. The terminal displays the output of the program, showing the data entry and the calculated salary components for an employee named Andini Wulandari.

```
PS C:\AI-PYTHON LANGUAGE> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe "c:/AI-PYTHON LANGUAGE/praktikum5.7no6.py"

DATA PEGAWAI
-----
Nama          : Andini Wulandari
Golongan      : B
Total Jam Kerja : 420
-----

PERHITUNGAN GAJI
-----
Gaji Pokok          : Rp. 700000
Tunjangan           : Rp. 105000.0
Uang Lembur          : Rp. 3150000
-----
Total              : Rp. 3955000.0
PS C:\AI-PYTHON LANGUAGE>
```